

Docket 58332-A-PCT-US/JPW/AJM/AHM

RECEIVED IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicants

: Nicole Suciu-Foca et al.

U.S. Serial No. : 10/018,677

Filed

: December 14, 2001

For

: GENERATION

OF

ANTIGEN

TECH CENTER 1600/2910

SUPPRESSOR

CELLS

FOR

TREATMENT

OF

AUG 1 9 2002

REJECTION

1185 Avenue of the Americas New York, New York 10036 August 9, 2002

Assistant Commissioner for Patents Washington, D.C., 20231

Sir:

INFORMATION DISCLOSURE STATEMENT

herewith an Information submit Applicants Statement under 37 C.F.R. §1.56.

In accordance with their duty of disclosure under 37 C.F.R. §1.56 and 37 C.F.R. §1.97, applicants would like to direct the Examiner's attention to the following publications which are listed on the attached Form PTO-1449 (Exhibit A). Publications 1-17 were entered in prior application U.S. Serial No. 09/333,809, filed June 15, 1999, to which priority under 35 U.S.C. §120 is claimed. According to 37 C.F.R. §1.98(d), copies of patents or publications of record such prior application need not accompany this Information Disclosure Statement.

1. Banchereau, J. and R.M. Steinman. (1998) "Dendritic cells and the control of immunity". Nature 392:245-252.

> COPY OF PAPERS ORIGINALLY FILED

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2. Barker, T.D., et al. (1996) "Identification of multiple and distinct CD8⁺ T cell suppressor activities: dichotomy between infected and uninfected individuals, evolution with progression of disease, and sensitivity to gamma irradiation". J. Immunol. 156:4476-4483.

- 3. Bennett, S.R.M., et al. (1998) "Help for cytotoxic-T-cell responses is mediated by CD40 signaling". Nature 393:478-480.
- 4. Ciubotariu R., et al. (1998) "Specific suppression of human CD4⁺ T helper cell responses to pig MHC antigens by CD8⁺CD28⁻ regulatory T cells". J. Immunol. 161:5193-5202.
- Damle, N.K., et al. (1983) "Alloantigen-specific cytotoxic and suppressor T lymphocytes are derived from phenotypically distinct precursors". J. Immunol. 131:2296-2300.
- 6. Groux, H., et al. (1997) "A CD4+ T-cell subset inhibits antigen-specific T-cell responses and prevents colitis".

 Nature 389:737-742.
- 7. Jiang, S., et al. (1998) "Induction of MHC-class I restricted human suppressor T cells by peptide priming in vitro". Human Immunol. 59:690-699.
- 8. Lanier, L.L., et al. (1995) "CD80 (B7) and CD86 (B70) provide similar costimulatory signals for T cell proliferation, cytokine production, and generation of CTL". J. Immunol. 154:97-105.
- 9. Liu, Z., et al. (1998) "Specific suppression of T helper

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alloreactivity by allo-MHC class I-restricted CD8⁺CD28⁻ T cells". *Int. Immunol.* 10:775-783.

- 10. Lombardi, G., et al. (1994) "Anergic T cells as suppressor cells in vitro". Science 264:1587-1589.
- 11. Noble, A., Zhao, Z.S., and H. Cantor. (1998)
 "Suppression of immune responses by CD8 cells. II. Qa-1
 on activated B cells stimulate CD8 cell suppression of T
 helper 2 responses". J. Immunol. 160:566-571.
- 12. Qin, S., Cobbold, S.P., Pope, H., Elliott, J., Kioussis, D., Davies, J., and H. Waldmann. (1993) "'Infectious' transplantation tolerance". Science 259:974-977.
- 13. Ridge, J.P., Di Rosa, F., and P. Matzinger. (1998) "A conditioned dendritic cell can be a temporal bridge between a CD4⁺ T-helper and a T-killer cell". *Nature* 393:474-478.
- 14. Schoenberger, S.P., Toes, R.E.M., van der Voort, E.I.H., Offringa, R., and C.J.M. Melief. (1998) "T-cell help for cytotoxic T lymphocytes is mediated by CD40-CD40L interactions". Nature 393:480-483.
- 15. Schwartz R.H. (1992) "Costimulation of T lymphocytes: the role of CD28, CTLA-4, and B7/BB1 in Interleuken-2 production and immunotherapy". *Cell* 71:1065-1068.
- 16. Tan, P., Anasetti, C., Hansen, J.A., Melrose, J., Brunvand, M., Bradshaw, J., Ledbetter, J.A. and P.S. Linsley. (1993) "Induction of alloantigen-specific hyporesponsiveness in human T lymphocytes by blocking interaction of CD28 with its natural ligand B7/BB1". J.

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Exp. Med. 177:165-173.

17. Yang, Υ., and J.M. Wilson. (1996)"CD40 liganddependent T cell activation: requirement of B7-CD28 signaling through CD40". Science 273:1862-1864.

Each of the above-listed publications is listed again on the accompanying PTO Form-1449 (Exhibit A). Applicants request that the Examiner make the above-listed publications of record in the subject application.

If a telephone interview would be of assistance in advancing prosecution of the subject application, undersigned attorneys invite the Examiner to telephone them at the number provided below.

No fee is deemed necessary in connection with the filing of this Information Disclosure Statement. However, if any fee is required, authorization is hereby given to charge the amount of such fee to Deposit Account No. 03-3125.

Respect fully submitted,

John P. White .

certify hereby that this correspondence is being deposited this date with the U.S. Postal Service with sufficient postage as first class mail in an envelope addressed to:

Assistant Commissioner for Patents Washington, D.C. 20231

Alan J. Morrison

Reg. No. 37,399

02 Date

Registration No. 28,678 Alan J. Morrison Registration No. 37,399 Attorneys for Applicants Cooper & Dunham LLP 1185 Avenue of the Americas New York, New York 10036

Tel. No. (212) 278-0400

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*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609: Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

DATE CONSIDERED

EXAMINER

Form PTO-1	Patent and Trademark Office	Atty. Docket No. 58332-A-PCT-US/ JPW/AJM/AHM	Serial No. 10/018,677	
	INFORMATION DISCLOSURE CITATION (Use several sheets if necessary)	Applicants: Nicole Suciu-Foca et al. Filing Date Group		
	OTHER DOCUMENTS (Including Author, Title, Date, P	December 14, 2001	1645	
	Lanier, L.L., et al. (1995) "CD8	ertinent Pages, Etc.)	306 (550	
	provide similar costimulatory	o (b)) and Cl	086 (B/U	
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	Lombardi, G., et al. (1994) "Anergie	c T cells as s	uppresso	
	cells in vitro". Science 264:1587-158	9.		
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	of immune responses by CD8 cells. I	II. Oa-1 on act	tivated	
	cells stimulate CD8 cell suppres	ssion of T	helper	
	responses". <i>J. Immunol.</i> 160:566-571			
	Qin, S., Cobbold, S.P., Pope, H., El	liott, J., Kiou	ssis, D.	
	Davies, J., and H. Waldmann.	(1993) "'Ir	nfectious	
	transplantation tolerance". Science 2	59:974-977.		
	Prage, J.P., Di Rosa, F., and P. I	Matzinger. (1	998) "	
ĺ	conditioned dendritic cell can be a	temporal bridge	e between	
	a CD4 ⁺ T-helper and a T-killer cell".	Nature 393:47	4-478.	
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	Offringa, R., and C.J.M. Melief. (1	998) "T-cell	help fo	
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	Schwartz R.H. (1992) "Costimulation	of T lymphocy	tes: the	
	role of CD28, CTLA-4, and B7/BB1 in 1	[nterleuken-2 p	roductio	
	and immunotherapy". Cell 71:1065-1068	3.	<u> </u>	
	Tan, P., Anasetti, C., Hansen, J.A.,	Melrose, J., 1	Brunvand	
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